

## A DUAL DENSITY DISC WITH ASSOCIATED PROPERTIES

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### ABSTRACT

10 An optical storage disc has portions for storing  
pre-recorded or mastered information and portions for  
storing user writable information, where the mastered  
portion and the writable portions have different  
storage capacities or areal data densities. During  
manufacture, a substrate is formed with a sequence of  
bumps to represent the mastered information and a  
15 series of grooves and lands, where information can  
later be written on the lands. A phase-change material  
is deposited over the substrate, the phase-change  
material changing both physical structure and optical  
constants when written to, e.g., by a laser.

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